

# Comparisons of Job Characteristics

**Focus Occupation:** Automotive Service Technicians and Mechanics (49-3023)

**Associated Occupation:** Maintenance and Repair Workers, General (49-9042)

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|    |  |
|----|--|
| << | Focus occupation element is much lower             |
| <  | Focus occupation element is lower                  |
| 0  | Focus occupation element is at a similar level     |
| >  | Focus occupation element is at a higher level      |
| >> | Focus occupation element is at a much higher level |

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 64

**Focus Occupation:** Automotive Service Technicians and Mechanics (49-3023)

**Associated Occupation:** Maintenance and Repair Workers, General (49-9042)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating |    | Evaluation of Focus Occupation                      |
|--|---------------------------------|--------------------------------|---------------------------|----|---|
| Mechanical                                     | 6.8                             | 19.3                           | 20.8                      | 0  | Current knowledge level may be sufficient           |
| Building and Construction                      | 4.0                             | 14.3                           | 2.2                       | << | Extensive education and/or training may be required |
| Public Safety and Security                     | 6.9                             | 12.0                           | 6.0                       | << | Extensive education and/or training may be required |
| Design   | 5.2                             | 11.7                           | 7.5                       | << | Extensive education and/or training may be required |
| Engineering and Technology                     | 5.7                             | 10.3                           | 12.9                      | >  | Current knowledge level is likely sufficient        |
| Physics  | 4.3                             | 8.8                            | 8.6                       | 0  | Current knowledge level may be sufficient           |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 85

**Focus Occupation:** Automotive Service Technicians and Mechanics (49-3023)

**Associated Occupation:** Maintenance and Repair Workers, General (49-9042)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating |   | Evaluation of Focus Occupation        |
|---|---------------------------------|--------------------------------|---------------------------|---|---------------------------------------|
| Equipment Maintenance                       | 3.5                             | 12.7                           | 11.6                      | 0 | Current skill level may be sufficient |
| Repairing                                   | 3.4                             | 12.3                           | 12.7                      | 0 | Current skill level may be sufficient |
| Troubleshooting                             | 4.5                             | 10.0                           | 11.4                      | > | Skill level is likely sufficient      |
| Quality Control Analysis                    | 5.9                             | 9.8                            | 10.4                      | 0 | Current skill level may be sufficient |
| Equipment Selection                         | 3.3                             | 9.5                            | 9.4                       | 0 | Current skill level may be sufficient |
| Installation                                | 1.7                             | 8.3                            | 6.4                       | < | A higher skill level may be required  |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

| Abilities  |                                 | Similarity of Focus Occupation to Associated Occupation: 85 |                           |                                |  |
|--|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)<br>Associated Occupation: Maintenance and Repair Workers, General (49-9042) |                                 |   |                           |                                |  |
| Associated Occupation's Key Abilities Elements   | Average Rating, All Occupations | Associated Occupation's Rating                              | Focus Occupation's Rating | Evaluation of Focus Occupation |  |
| Information Ordering   | 9.9                             | 13.3  | 10.5                      | <                              | Some improvement in abilities may be required        |
| Multilimb Coordination   | 6.0                             | 11.8  | 12.0                      | 0                              | Current ability level may be sufficient              |
| Manual Dexterity   | 6.5                             | 11.4  | 12.4                      | 0                              | Current ability level may be sufficient              |
| Visualization  | 7.5                             | 11.0  | 11.4                      | 0                              | Current ability level may be sufficient              |
| Static Strength  | 5.0                             | 9.8   | 8.0                       | <                              | Some improvement in abilities may be required        |
| Extent Flexibility   | 4.8                             | 9.2   | 14.4                      | >>                             | Current ability level is likely more than sufficient |
| Speed of Limb Movement   | 3.2                             | 5.8   | 5.1                       | <                              | Some improvement in abilities may be required        |
| Gross Body Equilibrium   | 3.2                             | 5.6   | 4.1                       | <<                             | Extensive improvement in abilities may be required   |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common  |                         | Similarity of Focus Occupation to Associated Occupation: 80 |
|--|-------------------------|---|
| Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)<br>Associated Occupation: Maintenance and Repair Workers, General (49-9042) |                         |   |
| Work Activities  | Exclusivity of Activity |   |
| Adhere to safety procedures  | 12                      |   |
| Align or adjust clearances of mechanical components or parts   | 72                      |   |
| Assemble, dismantle, or reassemble equipment or machinery  | 70                      |   |
| Conduct tests to locate mechanical system malfunction  | 71                      |   |
| Determine installation, service, or repair needed  | 58                      |   |
| Diagnose mechanical problems in machinery or equipment   | 65                      |   |
| Estimate time or cost for installation, repair, or construction projects   | 54                      |   |
| Fabricate, assemble, or disassemble manufactured products by hand  | 11                      |   |
| Follow safe waste disposal procedures  | 50                      |   |
| Identify properties of metals for repair or fabrication activities   | 71                      |   |
| Inspect machinery or equipment to determine adjustments or repairs needed  | 42                      |   |
| Install electronic equipment, components, or systems   | 62                      |   |
| Lubricate machinery, equipment, or parts   | 59                      |   |

|   |    |
|---|----|
| Maintain repair records   | 65 |
| Maintain welding machines or equipment                                    | 70 |
| Move or fit heavy objects   | 8  |
| Operate hoist, winch, or hydraulic boom                                   | 34 |
| Perform safety inspections in industrial, manufacturing or repair setting | 32 |
| Plan or organize work   | 51 |
| Read schematics   | 34 |
| Read technical drawings   | 7  |
| Read work order, instructions, formulas, or processing charts             | 9  |
| Repair or replace electrical wiring, circuits, fixtures, or equipment     | 49 |
| Repair or replace malfunctioning or worn mechanical components            | 62 |
| Set up and operate variety of machine tools                               | 62 |
| Test electrical/electronic wiring, equipment, systems or fixtures         | 54 |
| Test mechanical products or equipment                                     | 56 |
| Understand service or repair manuals                                      | 40 |
| Understand technical operating, service or repair manuals                 | 6  |
| Use acetylene welding/cutting torch                                       | 54 |
| Use combination welding procedures  | 68 |
| Use electrical or electronic test devices or equipment                    | 40 |
| Use hand or power tools   | 2  |
| Use knowledge of metric system  | 39 |
| Use knowledge of welding filler rod types                                 | 75 |
| Use machine tools in installation, maintenance, or repair                 | 72 |
| Use precision measuring devices in mechanical repair work                 | 61 |
| Use soldering equipment   | 44 |
| Use voltmeter, ammeter, or ohmmeter                                       | 52 |
| Weld together metal parts, components, or structures                      | 54 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 84

**Focus Occupation: Automotive Service Technicians and Mechanics (49-3023)**  
**Associated Occupation: Maintenance and Repair Workers, General (49-9042)**

| Tools and Technologies                     | Exclusivity |
|--|-------------|
| Business function specific software        | 1           |
| Cleaning equipment                         | 11          |
| Compressors                                | 9           |
| Computers                                  | 1           |
| Cutting and crimping and punching tools    | 3           |
| Cutting tools                              | 18          |
| Dispensing tools                           | 6           |
| Electrical measuring and testing equipment | 7           |
| Forming tools                              | 2           |

|  |    |
|--|----|
| Holding and clamping tools                               | 3  |
| Indicating and recording instruments                     | 2  |
| Industrial trucks  | 10 |
| Industry specific software                               | 1  |
| Length and thickness and distance measuring instruments  | 2  |
| Lifting equipment and accessories                        | 3  |
| Machine tools  | 7  |
| Marking tools  | 11 |
| Measuring and layout tools                               | 3  |
| Mechanical instruments                                   | 14 |
| Metal bending and forming machinery                      | 17 |
| Network applications software                            | 1  |
| Paint applicators and painting accessories               | 15 |
| Personal communication devices                           | 2  |
| Pneumatic tools  | 8  |
| Power tools  | 2  |
| Prying and bending tools                                 | 10 |
| Pumps  | 9  |
| Rough and finishing tools                                | 5  |
| Safety apparel   | 4  |
| Safety footwear  | 21 |
| Soldering and brazing and welding machinery and supplies | 6  |
| Special tooling fixtures                                 | 16 |
| Surveillance and detection equipment                     | 11 |
| Tool attachments and accessories                         | 12 |
| Viewing and observing instruments and accessories        | 4  |
| Vision protection and accessories                        | 3  |
| Wrenches and drivers                                     | 2  |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.